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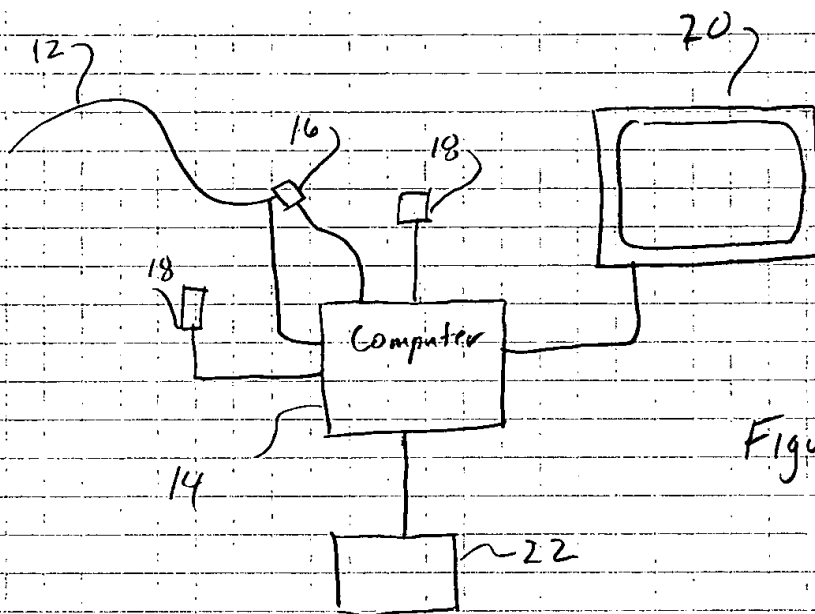
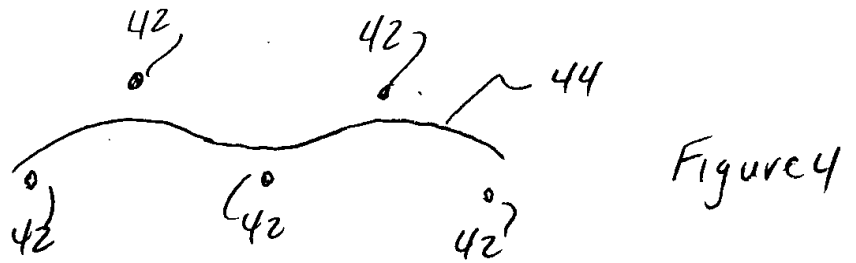
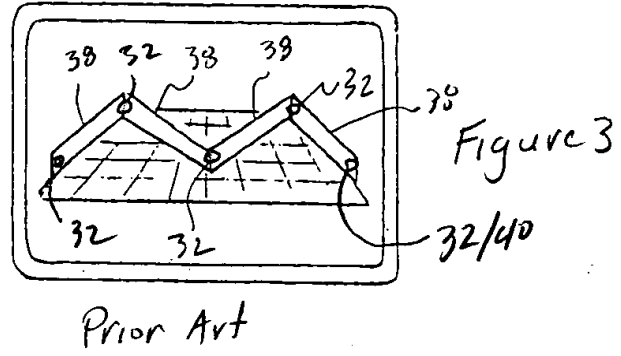


Figure 1

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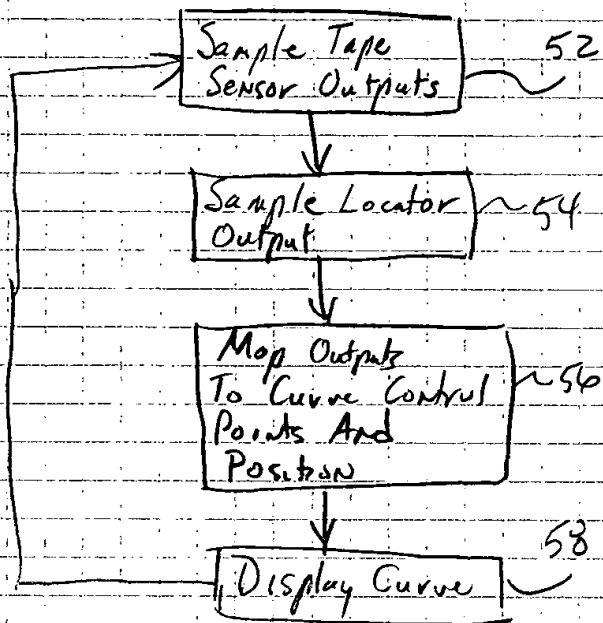


Figure 5

0369-7875

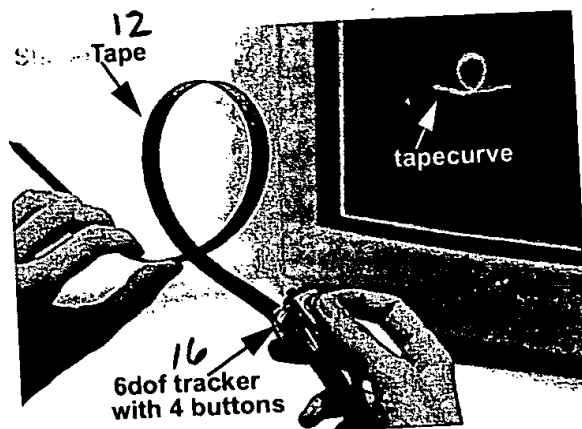
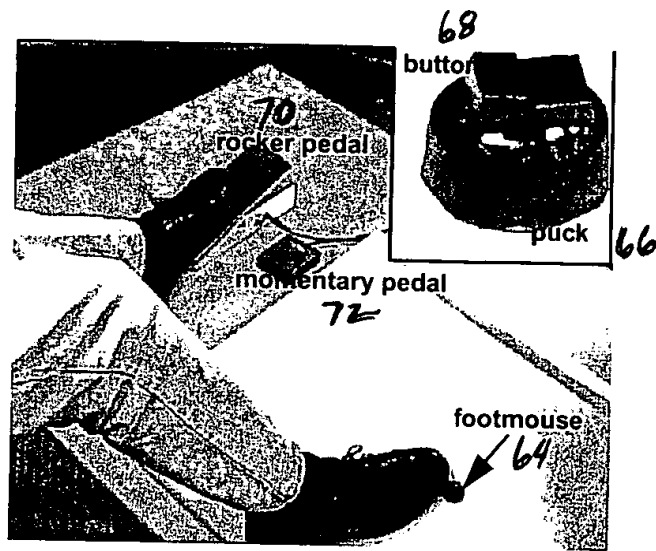


Figure 1: ShapeTape controlling a 3d virtual curve.

Figure 6

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~~Fig. 7~~ Foot pedals and footmouse. Inset picture is a closeup of the custom designed footmouse puck.

Figure 7

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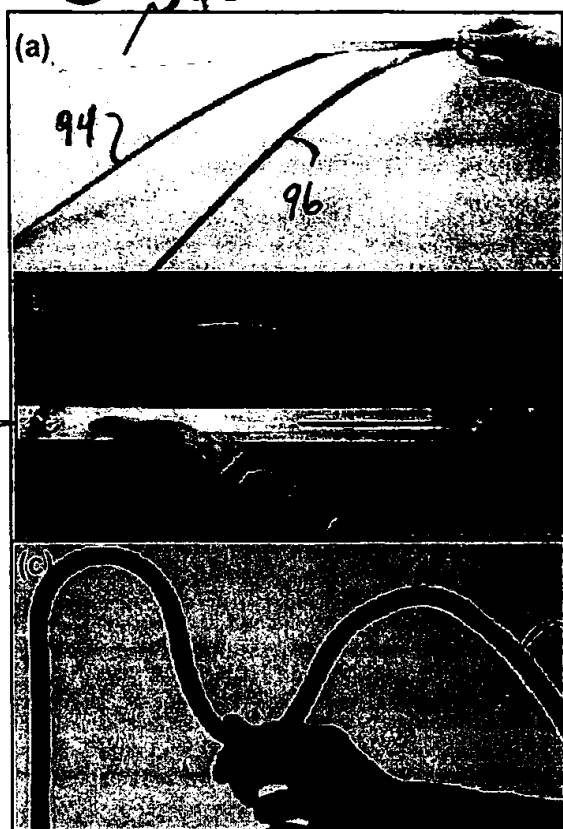


Figure 8

Figure 9

Figure 10

~~Figure 8~~ (a) Spring steels of different thicknesses and flexibility. (b) Jig for constraining spring steel. (c) Flexible curve that retains its deformed shape.

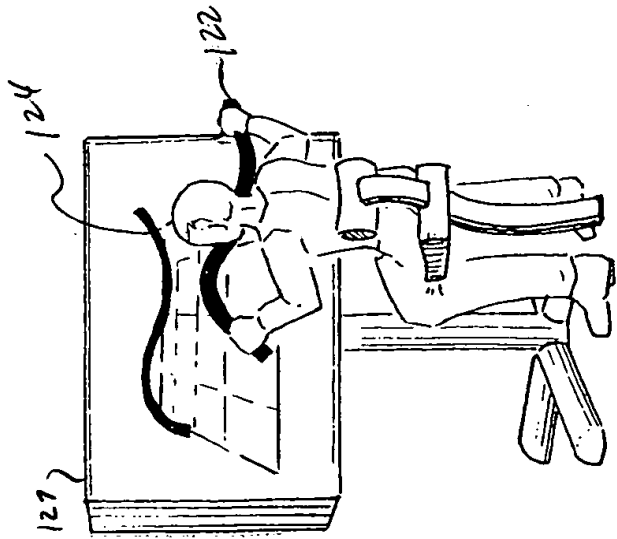


Figure 11A

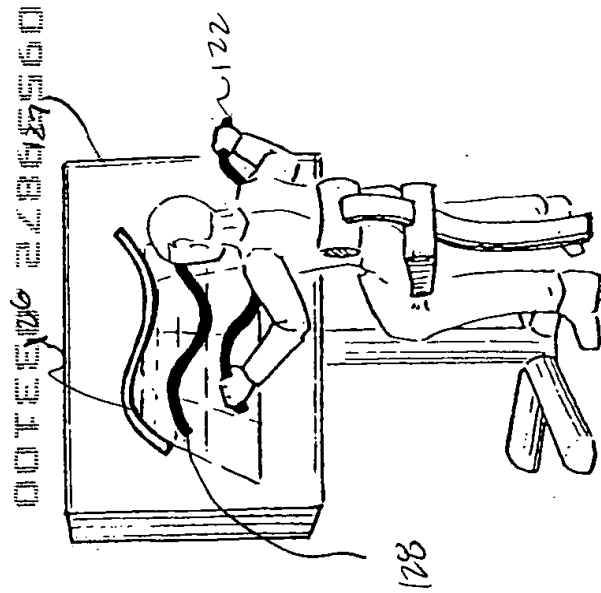


Figure 11B

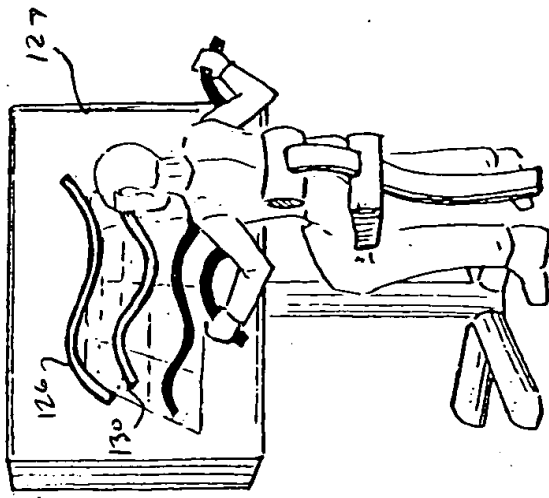


Figure 11C

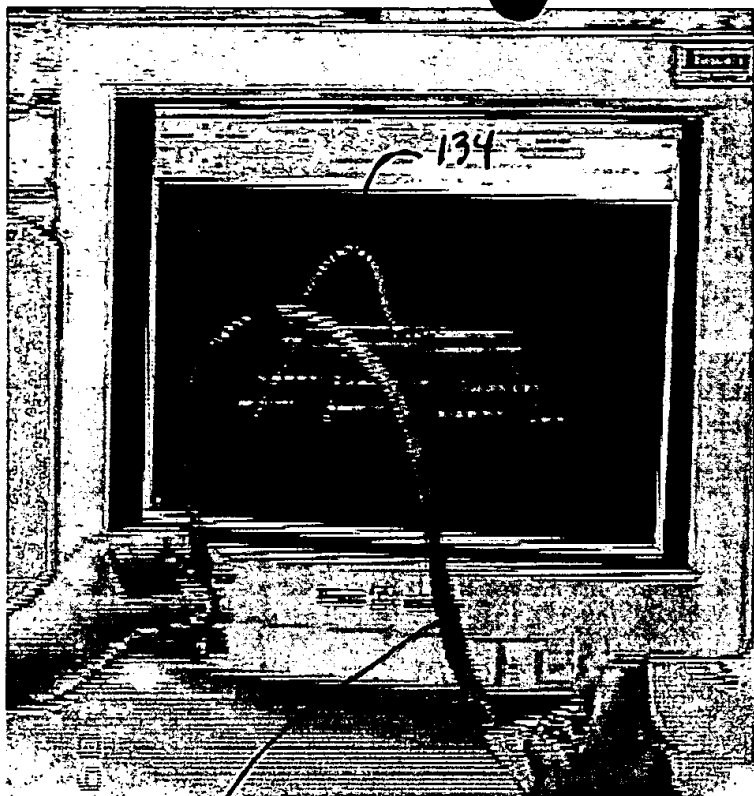
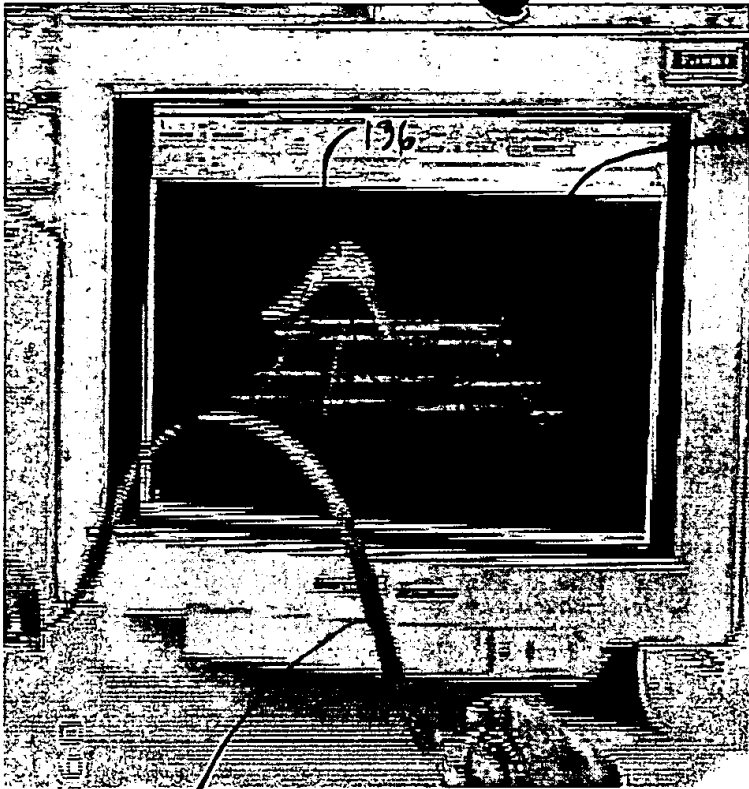


Figure 12A

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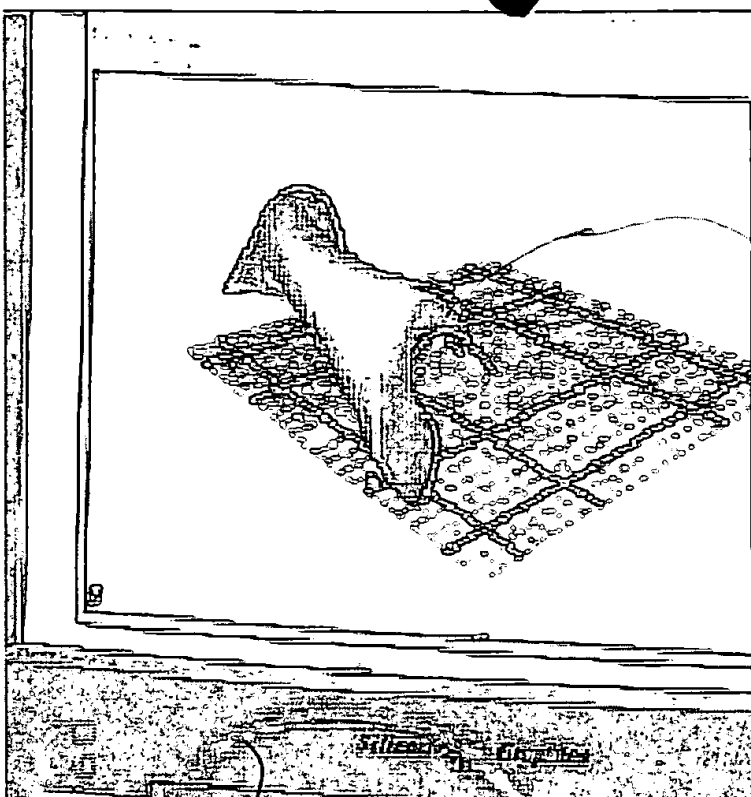


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Figure 12B

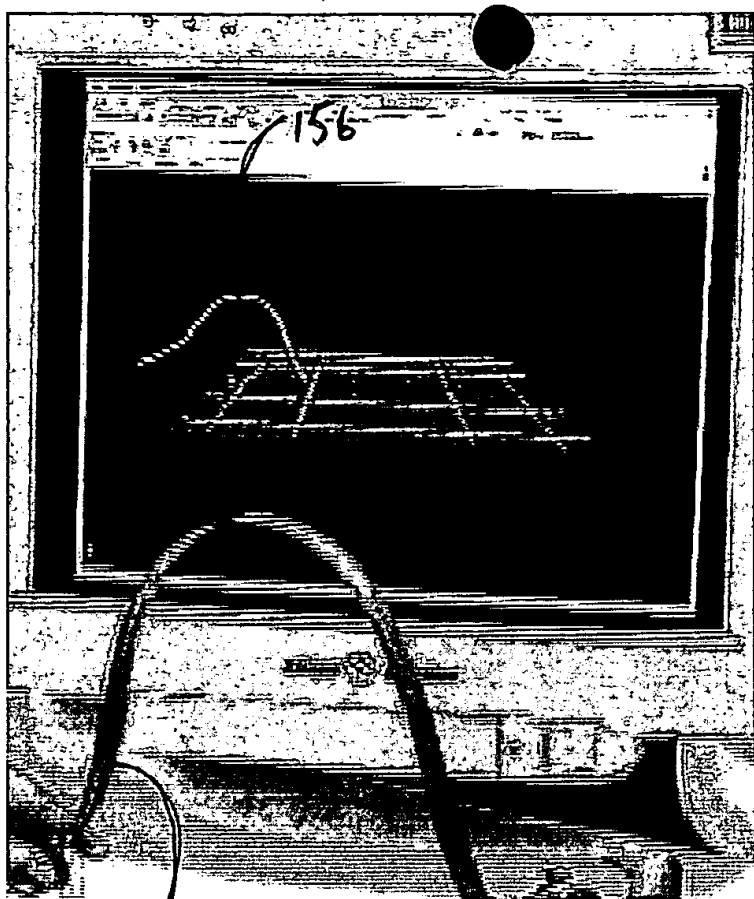
00539872-033100



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132 Figure 12C

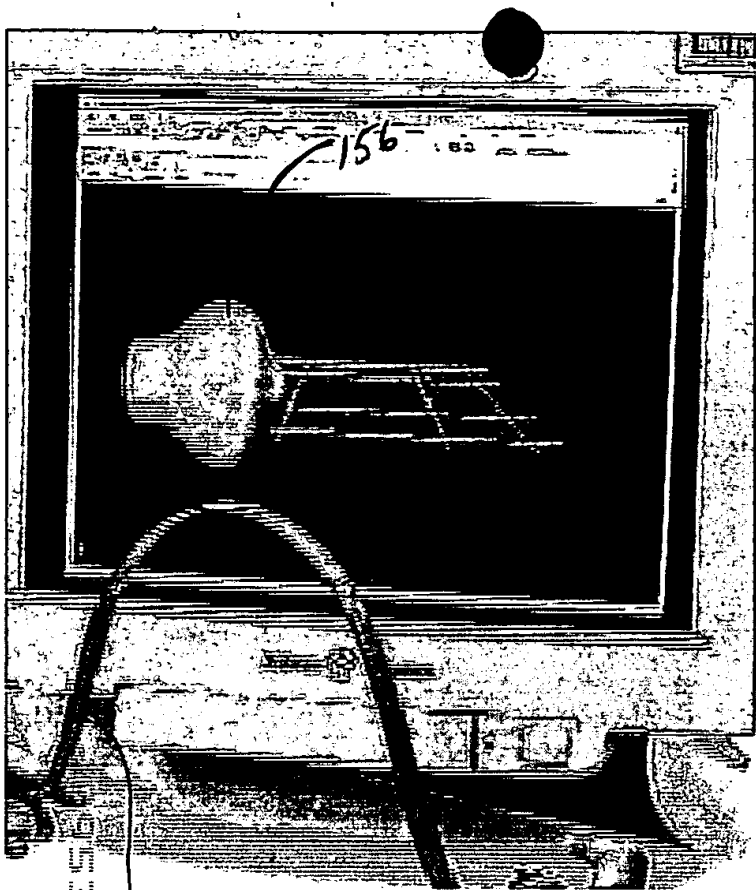
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Figure 13A

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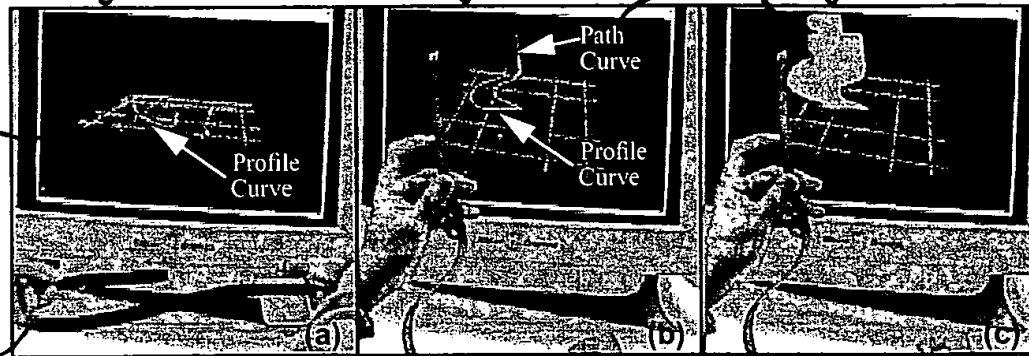
Figure 13B

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Figure 14A

Figure 14B

Figure 14C



Extrude. (a) Placement of profile curve. (b) Placement of initial path curve. (c) The extruded surface can be interactively manipulated to explore different shapes, positions, and orientations.

Figure 15A

Figure 15B

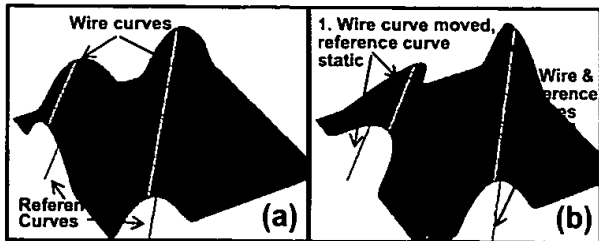


Figure 1. Wrinkles and creases using wires. (a) Shows two wire curves and associated reference curves deforming a surface. (b) 1. If a wire curve is moved while its reference curve is static, the wrinkling effect is increased. 2. If a wire curve is moved along with its reference curve, the wrinkle travels along the surface.

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Figure 16A

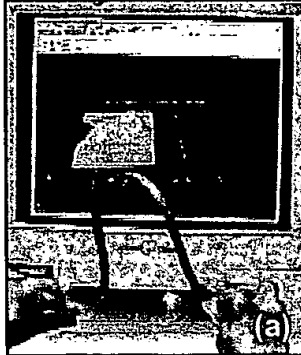


Figure 16B

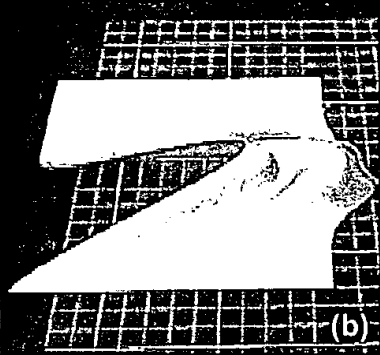
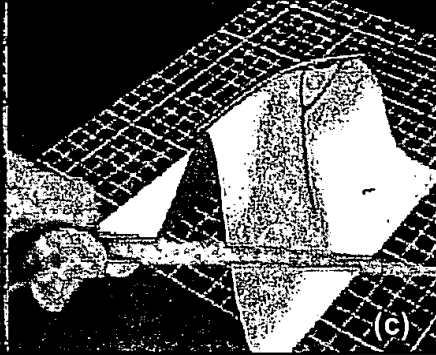


Figure 16C



~~Figure 16~~ Surface deformations using ShapeTape. (a) Bend of wire curve deforming a surface. (b) Bend and position of wire curve deforming a surface. The reference curve is static. (c) Twist of wire curve deforming a surface.

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A diagram of a curved structure, labeled 222, which is composed of several segments, labeled 226.



Figure 18A

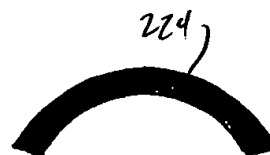
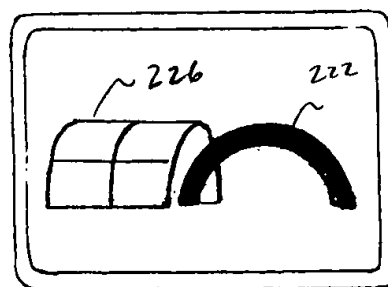


Figure 18 B

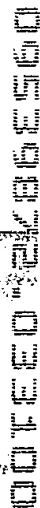


Figure 19B

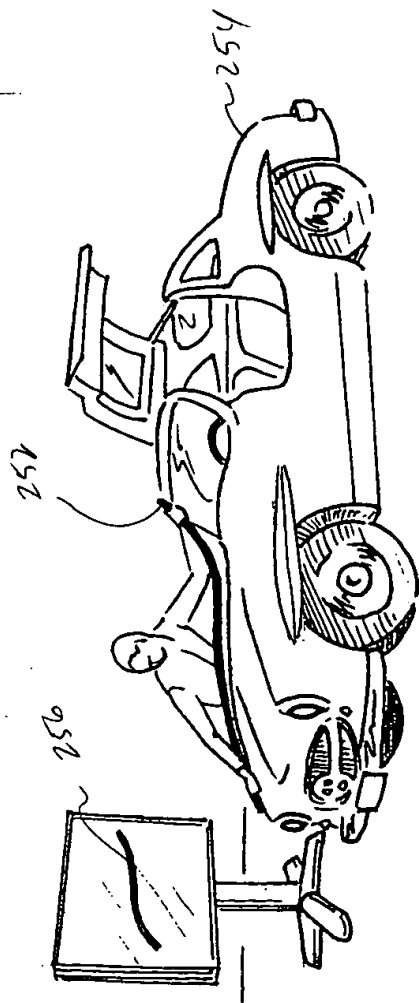


Figure 20